

Jet Propulsion Laboratory California Institute of Technology

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April 17, 2002

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TO: Distribution

FROM: Eugene S. Burke

SUBJECT: Minutes for the Joint Users Resource Allocation Planning Committee Meeting held

March 21, 2002.

NEXT JURAP MEETING:

Thursday, April 18, 2002 JPL Bldg. 303, Room 411 B 1:00 p.m.

Attendees:

R. Bartoo	J. Kehrbaum	D. Morris	T. Smith
G. Burke	N. Lacey	J. Neal	B. Toyoshima
B. Brymer	S. Lineaweaver	P. Poon	J. Valencia
D. Doody	G. Martinez	R. Ryan	S. Waldherr
C. Jacobs	M. Medina	M. Slade	

The Joint Users Resource Allocation Planning Committee meets monthly to review the status of Flight Projects, the requirements of other resource users, and to identify future requirements and outstanding conflicts.

Introductory Remarks / Conflict Resolutions – G. Burke

Gene welcomed the attending mission representatives and the Lockheed Martin contract manager, Jim Neal, to the JURAP meeting. Burke and Morris plan to travel to Goddard next week to meet with the Space Science Mission Operations Project Managers, and other Project Mission Managers to exchange information and discuss SOMO issues and other support concerns.

It is recommended that the Resource Allocation Planning (RAP) working group, which meets each Friday, alternate the meeting location between JPL and Foothill, and that the call-in conference line be reserved for

mission representatives external to JPL. It is much more efficient to discuss and negotiate conflicts while sitting across from each other, rather than through a telephone connection.

RARB Action Items – D. Morris

Twelve Action Items (AI) from the February 2002 Resource Allocation Review Board (RARB) Meeting were summarized. Action No.1, assigned to J. Erickson, is carried over from the August 2001 RARB and remains open. Nap Lacey is working AI No.3 with Pamela Wolken. Mike Wert is working IA No. 5, and is to provide input by next week. Action Item No. 11 has been completed and closed by J. Ludwinski.

Resource Analysis Team - J. Valencia

Testing and training of MADB/TIGRAS, the forecasting software, is ongoing. Special studies of Mars Express, LUNAR-A, Messenger and Cassini are in progress. Major Antenna Downtime re-planning and Mid-Range Schedule Development are ongoing. Weeks 23-26 were released to the DSN on March 21, 2002. Week 27 will be released April 01, 2002, and Weeks 39-42 will start negotiations on March 22, 2002.

DSS Downtime Forecast – J. Valencia

DSS-16 Servo Drive Retrofit has been scheduled in Weeks 31-33 of 2002, after the CONTOUR launch. DSS-46 Servo Drive has been scheduled in Weeks 15-20 of 2003, and DSS-66 Servo Drive is proposed for Weeks 27-32 of 2004. The DSS-15 Antenna Controller task has been deleted from 2003 and is in replanning for 2004. The DSS-45 Antenna Controller task has been deleted from 2003 with the re-planning date to be determined. These schedules are continuing to be worked.

SPECIAL REPORTS

Pioneer 10 – R. Ryan

A status update was provided on Pioneer-10. The spacecraft is healthy with a battery voltage of 26 volts (28 volts is normal). On March 1, DSS-14 transmitted "No-Op" commands to the spacecraft, and twenty-two hours later DSS-63 acquired the carrier with signal strength of – 163dbm. Ida Millner, the DSN NOPE, was acknowledged for her efforts in coordinating this support.

SOHO Spacecraft Emergency Problem/Recovery – G. Burke (for A. Chang)

SOHO entered a safe mode on February 5, 2002, caused by a voltage drop from 28 volts to 23 volts in the main power supply bus. A short possibly caused by a "tin whisker" growth in a circuit is suspect. Recovery efforts required more than one week to complete with the 34m antennas providing support.

Goldstone Solar System Radar - M. Slade

DSS-14 successfully supported ten near-Earth Asteroid Nereus tracks in January. DSS-14 GSSR supported radar imaging of Galilean satellite Callisto, and the Mercury Relativity radar ranging tracks in February. In March, DSS-14 GSSR successfully supported two observations of the Near-Earth Asteroid 2000GD2.

Radio Astronomy / Special Activities – G. Martinez

Five Earth Motion Precision Observation (TEMPO) activities were supported in January and February, with no reported data loss. The Space Geodesy Program (SGP) support was impacted by 2.5 hours of Radio Frequency Interference (RFI) caused by DSS-14 GSSR. DSS-63 supported two EVN L-band experiments.

FLIGHT PROJECTS REPORTS

Chandra – P. Beyer (No presentation given)

Voyager – E. Massey (No presentation given, but back-up material included in Minutes)

Cassini – D. Doody

Excellent support provided by the DSN this reporting period. Operations are essentially nominal and minor S/C instrument anomalies and recoveries are worked near real time. Cassini operations conducted NSP command testing at DTF-21 and demonstrated NSP command end-to-end uplink to the spacecraft at all three complexes. Main engine TCM -18 is planned for DOY 093 with a prime objective of clearing propellant lines. A superior conjunction radio science experiment is planned from DOY 157 through DOY 187 2002, and a Gravity Wave Experiment No.2 is planned from DOY 341 through DOY 016 2003.

MAP, ACE, and IMAGE, Genesis – S. Waldherr

MAP spacecraft operations are nominal and the L-2 station-keeping maneuver #1 was successfully executed on January 16, 2002. Addition L-2 station keeping maneuvers are planned for May, August, and December 2002.

ACE operations are nominal and the spacecraft is now at Libration Point (L1) maintaining a halo orbit.

IMAGE spacecraft operations are nominal and there are no resource issues or support concerns.

Mars Mission Management Office (MGS, M010) – E. Brower

Mar Global Surveyor (MGS) Flight Operations, Science Instruments, and Flight Support systems remain green. MGS experienced a safe-mode condition caused by the Star Tracker not recognizing a reference star. The Martian Radiation Environment Experiment (MARIE) on board M01O, which had failed earlier in the mission, has been revived and is now operational. The MARIE experiment spectrometer is designed to measure energy radiation levels as the spacecraft orbits the planet.

Ulysses - B. Brymer

Spacecraft operations are nominal. Ulysses is in continuous view from the Northern hemisphere and cannot be viewed from the Southern hemisphere. Spacecraft reconfigurations and instrument calibrations are performed as required and Earth pointing maneuvers are performed every four days. Three significant Discrepancy Reports were written this reporting period.

Galileo – B. Compton

Galileo routine activities include propulsion maintenance activities, and gyro performance tests. On January 17, 2002, the DSN supported the Io-33 encounter and approach with an altitude of 100 km (closest of any encounter to date). Galileo entered a safe mode on February 16, due to a despun bus reset. Galileo is now on a ballistic trajectory to impact Jupiter (J-35). Special thanks were extended to the DSN OPS Chief, GBRA, and the DSN EAC test group for their assistance in obtaining the needed tracking time.

Stardust - R. Ryan

The spacecraft is healthy and is presently at 3.15 Astronomical Units from Earth, with a round trip light time of 52 minutes. DSN support has generally been good this reporting period. The DSN successfully supported TCM-7 on January 18, 2002. Mission Operations are closely monitoring the spacecraft power system to protect the battery. Planning and testing for the Comet Wild-2 encounter is ongoing, with the possibility of using Asteroid AnneFrank to support encounter readiness testing.

The next JURAP meeting will be held:

Thursday, April 18, 2002, at JPL in Bldg. 303, Room 411, at 1:00 p.m.

Nap Lacey will lead a very important discussion about the 2003 Downtime problems.

Note: Teleconferencing is available by connecting to the (818) 354-2626 conference line.

ACE	Coldstone Deep Space Communications Compley
ACE Afkhami, F GSFC m/s 428.2	Goldstone Deep Space Communications Complex Holmgren, E
Sodano, R. J GSFC m/s 581.0	Massey, K. DSCC-61
Soudilo, R. J	McCoy, J DSCC-57
Canberra Deep Space Communications Complex	Millmore, D. DSCC-37
Churchill, P	Willimote, D BSec-37
Jacobsen, R	Goldstone Orbital Debris Radar (GODR)
O'Brien, J. J	Goldstein, R. M. (PM)
Ricardo, L	
Robinson, A	Goldstone Solar System Radar (GSSR)
Wiley, B	Haldemann, A. F
,	Hills, D. L
Cassini	Ostro, S. J. (PS)
Arroyo, B	Slade, III, M. A. (PM)
Chin, G. E	Wolken, P. R
Doody, D. F	
Frautnick, J. C	Gravity Probe-B
Gustavson, R. P	Arroyo, B
Maize, E. H	Keiser, M. (PS) Stanford Univ.
Mitchell, R. T. (PM)	Shapiro, Prof. I. I Smithsonian Astrophys. Obsrv.
Webster, J. L	
	IMAGE
Chandra	Abramo, C. A
Bucher, S	Burley, R. J GSFC m/s 632.0
Gage, K. R	Green, J. L
Lavoie, A. R. (PM) MSFC Org. FD03	
Marsh, K	IPN-ISD / General
Weisskopf, M. C. (PS) MSFC Org. SD50	Doms, P. E
Wicker, DSAO	Polansky, R. G
Wright, G. M MSFC Org. FD03	Stelzried, C. T
	Weber, III, W.J
Dawn	
Gavit, S. A. (PM)	IPN-ISD / DSMS Engineering
T.	Freiley, A. J
Europa	Kimball, K. R
Arroyo, B	Klose, J. C
McNamee, J.B. (PM)	Kurtik, S. C
Simpson, K.A	Osman, J. W
Galileo	Stole, Jr., R. W
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Huynh, J. C	IPN-ISD / DSMS Operations
Medina-Gussie, M	Almassy, W. T
Pojman, J. L	Berman, A. L
Theilig, E. E. (PM)	Covate, J. T
201020	Dillard, D. E
Genesis	Frazier, R
Arroyo, B	Gillam, I. T
Burnett, D. S	Green, J. C
Hirst, E. A	Hodder, J. A
Sasaki, C. N. (PM)	Knight, A. G
Sweetnam, D. N	Landon, A. J
Tay, P	Martinez, G
Yetter, K. E	Nevarez, R. E
	Recce, D. J
	Roberts, J. P

Schroeder, H. B.	Salazar, A. J	ISTP (GEOTAIL/POLAR/SOHO/WIND)
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Watzig, G. A. 502-420 Carder, M. E. GSFC 450. Wert, M. 502-420 Duilly, R. N. GSFC m/s 881.1 JPN-ISD DSMS Plans & Commitments Hearn, S. P. GSFC m/s 492.0 Abraham, D. S. 303-402 Mahmot, R. E. GSFC m/s 442.0 Altunin, V. I. 303-402 Machado, M. J. GSFC m/s 442.0 Benson, R. D. 303-402 Miller, K. A. GSFC m/s 480.0 Beyer, P. E. 303-402 Nace, E. M. GSFC m/s 480.0 Beyer, P. E. 303-402 Odendahl, S. K. GSFC m/s 480.0 Clastrone, R. I. 303-402 Deck, C. A. 303-402 Chang, A. F. 303-402 Burgess, L. N. 230-107 Griffish, D. G. 303-402 Burgess, L. N. 230-107 Hollmes, D. P. 303-402 Burges, S. D. 11-116 Kwok, A. 303-402 Hollady, J. A. 303-402 Miller, R. B. 303-402 Hollady, J. A. 303-402 Morphy, K. 303-402 Hollady, J. A. 303-402 Morphy, K.		
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Pickett, J U. of Iowa		
	Pickett, J U. of Iowa	

Mars Exploration Rover (MER A & B)	NASA/GSFC/General
Adler, M	Barbehenn, G. M GSFC m/s 440.8
Arroyo, B	Levine, A. J GSFC m/s 452.0
Chadbourne, P	Martin, J. B GSFC m/s 451.0
Crisp, J. A. (PS)	NASA/SOMO
Erickson, J. K	Dalton, J. T GSFC m/s 720.0
Ludwinski, J.M	Dowen, A. Z
Roncoli, R. B	Hall, V. F JSC Code TG
Theisinger, P. C. (PM)	Morse, G. A JSC Code TA
	Thompson, E. W JSC Code GA
Mars Express Orbiter	1,
Arroyo, B	NOZOMI (Planet B)
Horttor, R. L. (PM)	Arroyo, B
Thompson, T. W	Tay, P
1	Yetter, K. E
Mars Global Surveyor	,
Albee, A. (PS)	PFPD / Mission Management Office
Arroyo, B	Morris, R. B
Brower, E. E	Varghese, P
Thorpe, T. E. (PM)	
Yetter, K. E	Radio Astronomy
	Klein, M. J. (PM)
Mars Program Office	Kuiper, T. B. (PS)
Cutts, J. A	Martinez, G
Jordan, Jr., J. F	Wolken, P. R
McCleese, D. J	
Naderi, F. M	Reference Frame Calibration
	Altunin, V. I
	Cangahuala, A. (PM)
Mars Reconnaissance Orbiter Project	Jacobs, C
Arroyo, B	
Graf, J. E. (PM)	Space Infrared Telescope Facility (SIRTF)
Johnston, M. D	Arroyo, B
Lock, R. E	Gallagher, D. B. (PM)
	Kwok, J. H
Mars 2001 Odyssey Mission	
Arroyo, B	StarLight Mission
Gibbs, R.G	Arroyo, B
Harris, J. A	Carrion, C
Landano, M. R. (PM)	Livesay, L. L. (PM)
Mase, R. A	Spradlin, G. L
Saunders, R. S. (PS)	
Spencer, D. A	Stardust
	Arroyo, B
Muses-C	Duxbury, T. C. (PM)
Smith, J.G (PM)	Hirst, E
	Ryan, R. E
NASA Headquarters	Tay, P
Costrell, J. A Code MT	Yetter, K. E
Geldzahler, B	
Hertz, P Code SR	
Holmes, C. P Code SR	
Spearing, R. E Code M-3	
NASA/ARC/General	
Campo, R. A	
Cumpo, R. 11	

Ulysses / Voyager
Arroyo, B
Brymer, B. F
Cummings, A. C
Hall, Jr., J. C
Massey, E. B. (PM)
Medina-Gussie
Nash, J. C
Smith, E. J. (PS - ULS)
Stone, E.C. (PS - VGR) CIT 220-47
Yetter, K. E
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Altunin, V. I. 303-402 Miller, K. J. 264-828 Preston, R.A. (PS) 238-332
Altunin, V. I. 303-402 Miller, K. J. 264-828 Preston, R.A. (PS) 238-332 Smith, J. G. (PM) 264-828
Altunin, V. I. 303-402 Miller, K. J. 264-828 Preston, R.A. (PS) 238-332 Smith, J. G. (PM) 264-828 Other Organizations
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Please mark any additions, deletions, or corrections to this distribution list and return to:

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JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE

ACTION ITEM STATUS From 21 August 2001 RARB

David G. Morris

March 21, 2002





Resource Allocation Planning & Scheduling Office (RAPSO)

Action Item Summary

<i>AI</i> #	Year	Month(s)	System	Responsible	Due Date	Status
01	2004	January	MER	J. Erickson	6/1/2002	Open

ACTION: Provide Final Landing Site coordinates (SPK file) for both Rovers one year prior to launch. (Reference A.I. #7 of August 13, 2001 RARB)

<u> </u>	Year	Month(s)	System	Responsible	Due Date	<u>Status</u>
02	2003	January-December	DSMS P & C	R. Miller	4/1/2002	Open

ACTION: Investigate and Negotiate the feasibility of alternate assets providing current DSN Catalog Maintenance and Enhancement (CAT M&E) radio sources.





Resource Allocation Planning & Scheduling Office (RAPSO)

Action Item Summary

<i>AI</i> #	Year	Month(s)	System	Responsible	Due Date	Status
03	2003	January-December	SGP	N. Lacey P. Wolken	4/1/2002	Ope

ACTION: As a result of recommending deletion of the entire 2003 request of Space Geodesy Program, provide a listing of opportunities to the project to assist in their re-planning a reduced (hours) experiment.

<i>AI</i> #	Year	Month(s)	System	Responsible	Due Date	Status
04	2003	January	SIRTF	P. Beyer	4/1/2002	Open

ACTION: Perform telecom analysis to determine the adequacy of DSS-63 supporting spacecraft on day of launch. The expressed concern is that the DSS-63 X-band transmitter may saturate the SIRTF receiver. (DSS-65 has Downtime; DSS-54 is supporting Cassini GWE.)





Resource Allocation Planning & Scheduling Office (RAPSO)

Action Item Summary

<u> </u>	Year	Month(s)	System	Responsible	Due Date	<u>Status</u>
05	2003	January-April	DSN	M. Wert	4/1/2002	Open

ACTION: Investigate the impact to operations from deleting or reducing the 70m Antenna Calibrations in this period.

<i>AI</i> #	Year	Month(s)	System	Responsible	Due Date	Status
06	2003	November	MER-AOdys	sey J. Erickson	5/1/2002	Open

ACTION: MER-A agreed to modify DSN requests for Odyssey and MGS to fulfill required support in weeks 46-47 of November 2003.

RESPONSE:.





Resource Allocation Planning & Scheduling Office (RAPSO)

Action Item Summary

<u> </u>	Year	Month(s)	System	Responsible	Due Date	<u>Status</u>
07	2003-2004	December-February	Mars Program	C. Whetsel	5/1/2002	Open

ACTION: Mars Program will evaluate support problems during the mid-December 2003 through end of February 2004 timeframe. All NASA and non-NASA Mars missions requirements will be evaluated and coordinated in light of the NASA Mars mission priorities and provided in time to be addressed at the August 2002 RARB.

<i>AI</i> #	Year	Month(s)	System	Responsible	Due Date	Status
08	2004	January	Cassini	B. Mitchell	4/1/2002	Open

ACTION: Cassini, based upon the recommendations of taking daily 1-4 hour gaps during the Canberra/Madrid overlap in January 2004, will evaluate impact to GWE. In addition, evaluate sliding the entire 40 days for the GWE earlier by a few weeks.

RESPONSE: RAT is analyzing an alternate experiment period.





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Resource Allocation Planning & Scheduling Office (RAPSO)

Action Item Summary

<u> </u>	Year	Month(s)	System	Responsible	Due Date	Status
09	2004	January	MER-B	J. Erickson	4/1/2002	Open

ACTION: Mars Exploration Rover Project will evaluate whether MER-B can reduce coverage during critical MER-A TCMs (4, 5 and 6) in order that the support is used for a MER-A required hot-backup 34m antenna.

<u> </u>	Year	Month(s)	System	Responsible	Due Date	Status
10	2004	January	DSN	C. Jacobs	4/1/2002	Open

ACTION: Provide analysis of impact (e.g., to MER-B landing accuracy) of moving DSN Clock Sync VLBI out to week 4.





Resource Allocation Planning & Scheduling Office (RAPSO)

Action Item Summary

<i>AI</i> #	Year	Month(s)	System	Responsible	Due Date	Status
11	2004	January	MER	J. Ludwinski	2/26/2002	Closed

ACTION: Provide MER Project Surface Operations Viewperiods for the four primary and two alternate landing sites to RAPSO (J. Kehrbaum).

RESPONSE: Complete set of viewperiods were provided 8 March 2002.

<u> </u>	Year	Month(s)	System	Responsible	Due Date	Status
12	2003-2004	November-February	DSMS P & C	R. Miller	5/1/2002	Open

ACTION: Identify Risk Posture for individual mission's key events to plan steps the DSN can do to mitigate foreseeable anomalies (e.g., s/c emergency, station outages, MCD3 contention, etc.).

Resource Allocation Planning & Scheduling Office (RAPSO)

JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE



Resource Analysis Team

March 21, 2002

Jose Valencia

For Kevin Kim



◆ RESOURCE NEGOTIATION STATUS

- 2002 WEEKS 23 26 (THRU 06/30/2002) WAS RELEASED TO DSN ON 03/21/2002
- 2002 WEEK 27 (THRU 07/07/2002) IS DUE TO BE RELEASED ON 04/01/2002
- 2002 WEEKS 39 42 (THRU 10/20/2002) WILL GO INTO NEGOTIATIONS STARTING 03/22/2002





- LUNAR-A LOAD STUDY
- MEX LOAD STUDY
- MESSENGER LOAD STUDY
- CASSINI GWE
- GOES-N
- TDRS-J

ON-GOING ACTIVITIES

- MADB/TIGRAS TESTING AND TRAINING
- DOWNTIME REPLANNING
- MID-RANGE SCHEDULE DEVLOPMENT



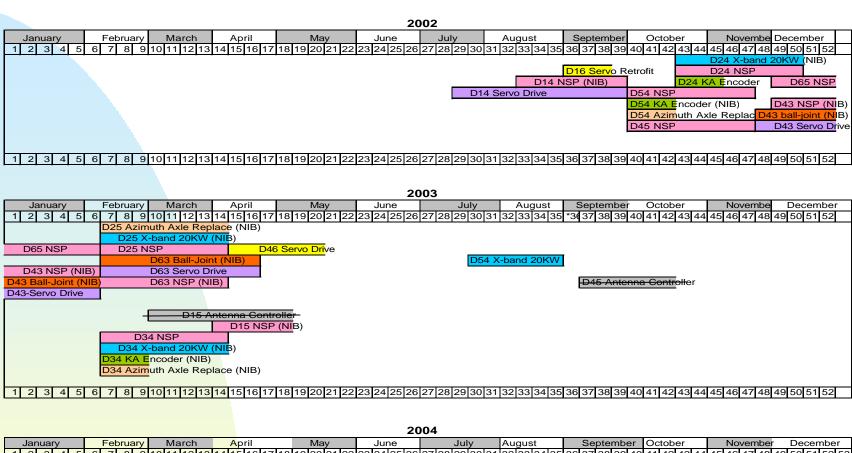
HTTP://RAPWEB.JPL.NASA.GOV

Major DSN Antenna Downtime Status

Jose Valencia March 21, 2002

	MAJOR DSN DOWNTIMES by SITE by Year									
Year	Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY		
2002	DSS 14	NIB - NSP Implementation	08/15/02	09/27/02	44	33-39	227	270		
2002	DSS 14	70M Servo Drive Replacement	07/15/02	09/27/02	75	29-39	196	270		
2002	DSS 16	Servo Drive Retrofit	09/03/02	09/17/02	15	36-38	246	260		
2002	DSS 24	NSP Implementation	10/21/02	12/12/02	53	43-50	294	346		
2002	DSS 24	NIB - 20 KW X-Band TXR Installation	10/21/02	12/12/02	53	43-50	294	346		
2002	DSS 24	NIB - KA-Band Encoder Mech Mod-Kit Installation	10/21/02	11/09/02	20	43-45	294	313		
2002	DSS 43	70M Servo Drive Replacement	11/25/02	02/09/03	77	48-06	329	040		
2002	DSS 43	NIB - Ball-Joint Pad Refurbishment	11/25/02	02/09/03	77	48-06	329	040		
2002	DSS 43	NIB - NSP Implementation	12/02/02	02/09/03	70	49-06	336	040		
2002	DSS 45	NSP Implementation	10/01/02	11/22/02	53	40-47	274	326		
2002	DSS 54	NSP Implementation	10/01/02	11/22/02	53	40-47	274	326		
2002	DSS 54	NIB - KA Band Encoder Mech Mod Kit Installation	10/01/02	10/20/02	20	40-42	274	293		
2002	DSS 54	NIB - Azimuth Axle Replacement	10/01/02	10/20/02	20	40-42	274	293		
2002	DSS 65	NSP Implementation	12/02/02	02/09/03	70	49-06	336	040		
2003	DSS 15	Antenna Controller Replacement		05/04/03	63	10-18	062	124		
2003	DSS 15	NIB - NSP Implementation	04/01/03	05/01/03	31	14-18	091	121		
2003	DSS 25	NSP Implementation	02/10/03	04/06/03	56	07-14	041	096		
2003	DSS 25	NIB - 20 KW X-Band TXR Installation	02/10/03	04/06/03	56	07-14	041	096		
2003	DSS 25	NIB - Azimuth Axle Replacement	02/10/03	04/06/03	56	07-14	041	096		
2003	DSS 34	NSP Implementation	02/10/03	04/06/03	56	07-14	041	096		
2003	DSS 34	NIB - 20 KW X-Band TXR Installation	02/10/03	04/06/03	56	07-14	041	096		
2003	DSS 34	NIB - KA-Band Encoder Mech Mod-Kit Installation	02/10/03	03/02/03	21	07-09	041	061		
2003	DSS 34	NIB - Azimuth Axle Replacement	02/10/03	03/02/03	21	07-09	041	061		
2003	DSS 46	Servo Drive Replacement	04/07/03	05/18/03	42	15-20	097	138		
		20 KW X-Band TXR Installation	07/21/03	08/31/03	42	30-35	202	243		
2003	DSS 63	70M Servo Drive Replacement	02/10/03	04/20/03	70	07-16	041	110		
2003	DSS 63	NIB - Ball-Joint Pad Refurbishment	02/10/03	04/20/03	70	07-16	041	110		
2003	DSS 63	NIB - NSP Implementation	02/10/03	04/06/03	56	07-14	041	096		
2004	DSS 14	Antenna Controller Replacement	07/05/04	10/03/04	91	28-40	187	277		
2004		Antenna Controller Replacement		06/27/04	49	20-26	131	179		
	22.30									

Antenna Downtime Time-Line



4/9/2002

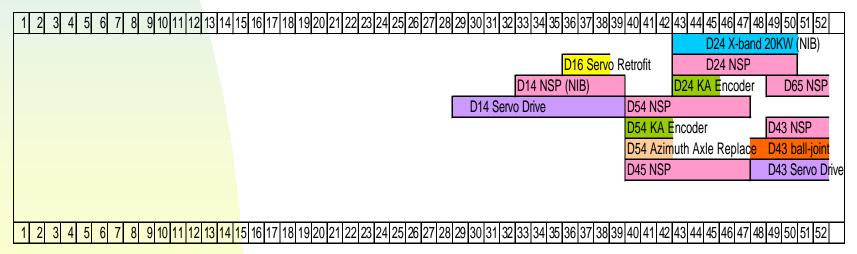
CHANGES TO ANTENNA DOWNTIME SCHEDULE SINCE JANUARY 17 JURAP

- DSS-16 Servo Drive Retrofit
 - Scheduled in Weeks 31-33 of 2002 after CONTOUR launch phase window ends.
- DSS-46 Servo Drive
 - ♦ Scheduled in Weeks 15-20 of 2003
- DSS-66 Servo Drive
 - Proposed for Weeks 27-32, 2004
- DSS-15 Antenna Controller
 - ◆ Task has been deleted from 2003 and is being re-planned in 2004.
- DSS-45 Antenna Controller
 - ◆ Task has been deleted from 2003 re-planning date TBD

4/9/2002

Tasks scheduled in 2002

- DSS-16 Servo Drive Retrofit
- DSS-14 NSP/Servo Drive
- DSS-24 NSP/X-Band 20Kw/KA-Band Encoder
- 4. DSS-54 NSP/KA-Band Encoder/Azimuth Axis Replacement
- DSS-65 NSP
- DSS-43 NSP
- 7. DSS-43 Ball-joint Pad Refurbishment
- 8. DSS-43 Servo Drive
- 9. DSS-45 NSP



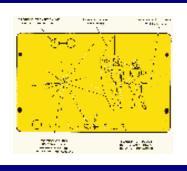
4/9/2002

Joint Users Resource Allocation Planning Committee

SPECIAL REPORT

PIONEER 10

March 21, 2002





PIONEER 10

Report to JURAP

PIONEER 10 LIVES

30 YEARS FROM LAUNCH AT CAPE CANAVERAL ON MARCH 2, 1972, PIONEER 10 DATA WAS RECEIVED AT MADRID

GOLDSTONE

ON MARCH 1, DSS 14 TRANSMITTED AN UPLINK, AND TWO NO-OP COMMANDS, AT 200KW TO THE SPACECRAFT.

MADRID

22 HOURS LATER, FROM 79.7 AU, DSS 63 ACQUIRED THE DOWNLINK, ON TIME AT, -183 dbm

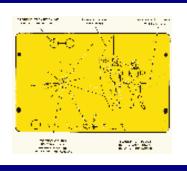
AFTER PEAKING THE SIGNAL TO -178.5, THEY LOCKED THE TELEMETRY AT 16 BPS WITH SNR OF-0.5db

ARECIBO

SETI INSTITUTE ALSO ACQUIRED THE SAME SIGNAL AT IN PUERTO RICO SETI HAS BEEN USING PIONEER 10 AS A REFERENCE SIGNAL









PIONEER 10

Report to JURAP

PIONEER SPACECRAFT IS HEALTHY

- •VERY COLD WITH MOST TEMPERATURE READINGS AT THE BOTTOM OF THEIR SCALE.
- •BUS VOLTAGE ABOUT 26 VOLTS (NOMINAL IS 28)
- •UPLINK RECEIVED FROM DSS 14 AT -131.7 dbm
- •TWO COMMANDS RECEIVED, BOTH CONFIRMED AS EXECUTED
- •GEIGER TUBE TELESCOPE INSTRUMENT ON, AND DATA RECEIVED
 - •Dr. James Van Allen, the PI, was pleased to hear he had data to analyze
 - ·THE PROJECT IS GRATEFUL TO ALL WHO PARTICIPATED



http://spaceprojects.arc.nasa.gov/Space_Projects/pioneer/PNhome.html



Joint Users Resource Allocation Planning Committee

SPECIAL REPORT

SOHO Spacecraft Emergency Problem / Recovery

February 5, 2002

Albert Chang March 21, 2002

The Problem

- Very unusual episode that occurred when SOHO went into Emergency Sun Reacquisition (ESR) on February 5th at 0239 GMT
 - ESR is a safe-hold condition in which the normal control of the spacecraft is lost due to a number of reasons and only low rate engineering telemetry is sent
 - For all practical purposes, the spacecraft had momentarily shut down
 - The main power bus power dropped which rippled throughout the spacecraft including all instruments, recorders, heaters, antenna pointing mechanism, etc
 - The central on-board processor rebooted
 - Thermal reconfiguration occurred
 - All instruments shut down
- Request was made to pull DSS43 (70M) out of maintenance to receive the SOHO low rate engineering telemetry of 1183.9 bps (2730.6 sps) since a 34M was not immediately available
- Spacecraft emergency was declared at 0435 GMT to obtain access to the 34M antenna's
 - The 34M antenna is required since the 26M antenna's cannot receive the low rate telemetry

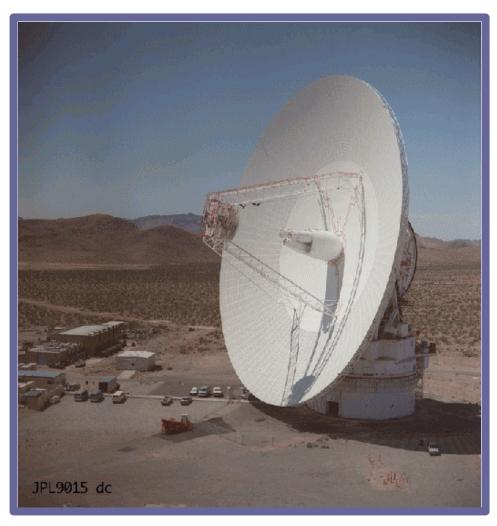
The Recovery

- The recovery started that morning by bringing up the spacecraft subsystems
 - Activities included setting hardware configurations on the spacecraft, ground based roll control, switching control units, antenna reconfiguring, re-setting the thermal reconfiguration and the restarting the solid state recorder
 - Reloaded the gyro-less patches to the on-board processor completed at 2305 GMT
- SOHO was put into Coarse Roll Pointing (CRP) mode by mid afternoon but still required 34M support to continue the recovery
 - CRP is a mid way recovery condition in which partial recovery has been accomplished and medium and/or high rate telemetry has been started
 - Spacecraft emergency was lifted at 2308 GMT after the gyro-less patches were uploaded and verified
- Instruments were safed over the next two days for the momentum management and station keeping maneuvers that are required after any ESR to return SOHO to its proper orbit and reaction wheel settings
- Took more than a week to recover all of the instruments after the maneuvers. Each instrument team had to re-load all of its patches and to check out each portion of their instrument.

The Investigation

- It is suspected that some type of short occurred in the main power bus
 - Could have been a "tin whisker" growing outward from a circuit but there is no confirmation or way of knowing exactly what did occur
- Indications of the ESR and warm restart were:
 - The duration of the main bus voltage drop was less than 15 msec but more than 60 microseconds
 - The voltage dropped from 28 volts down to less than 23 volts

Goldstone Solar System Radar



Martin A. Slade

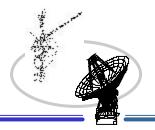
March 21, 2002

NASA Jet Propulsion Laboratory

Joint Users Resource Allocation Planning Committee Meeting



Goldstone Solar System Radar (GSSR)



- •From Jan. 18, 2002 to Jan. 29, 2002, the Goldstone Solar System Radar carried out 10 successful tracks on near-Earth Asteroid Nereus.
- •On Feb. 4 and Feb. 19, radar images of the icy Galilean satellite Callisto were made by observations of GSSR transmissions being received at the Very Large Array (VLA).
- Mercury Relativity radar ranging tracks were successfully performed on Feb. 8, Feb. 12, and Feb. 23, 2002.
- GSSR successfully carried out two observations on a near-Earth Asteroid target of opportunity 2000GD2 on March 12 and March 16, 2002.



Joint Users Resource Allocation Planning Committee



RADIO ASTRONOMY AND SPECIAL ACTIVITIES

George Martinez

March 21, 2001

Pasadena Operations Program Services



TEMPO

(Time and Earth Motion Precision Observations

- Clock Sync
 - 5 Clock Syncs in January and February.
 - No data loss was reported in any of the observations.
 - Data tapes were sent to the JPL Correlator for processing.

Program Services



Space Geodesy Program (SGP)

IVS-T2001

- International VLBI Service (IVS) provides a service which supports geodetic and astrometric work on reference systems, Earth science research, and operational activities.
- 2.5 Hours of Fatal RFI from DSS-14 GSSR experiment.
- No further problems were reported by the station.
- Data tapes sent to Bonn Correlator.

Pasadena Operations Program Services



EVN

EP040

- An L-band experiment that collected phase reference data to determine if ZW35 is a supernova remnant or a cluster.
- Strong RFI reported by DSS-63.
- No data outage was reported by the station.
- Data tapes were sent to JIVE Correlator.

EP042A

- An L-band experiment that gathered spectrum line absorption data at redshift OH of starburst ZW049.057.
- No problems were reported.
- Data tapes were sent to JIVE Correlator.

Program Services



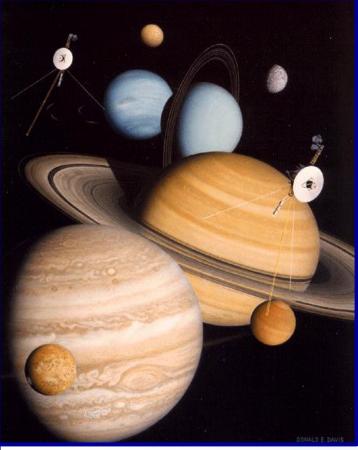
Ground Based Radio Astronomy

Guest Observing

- GL026
 - An L-band experiment that collected data at DSS-14 to obtain deeper images of the numerous radio supernovae in Arp 220.
 - No problems were reported by the station.
 - Data tapes sent to Socorro Correlator.

GP030B

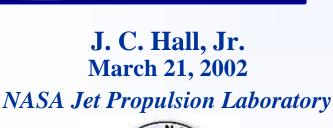
- An L-band experiment at DSS-14/63 to produce a high resolution and very high sensitivity spectral study of the radio images of the Gravity Lens system 2016+112.
- No problems were reported by the stations.
- Data tapes were sent to Socorro Correlator.



VOYAGER

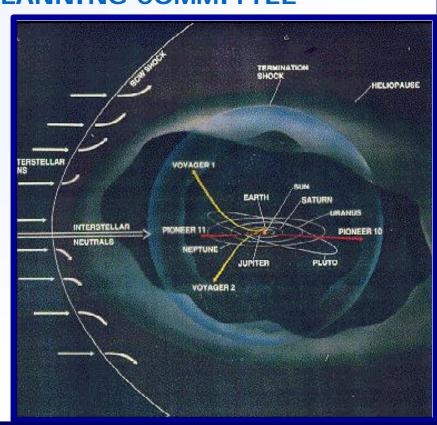
FLIGHT OPERATIONS

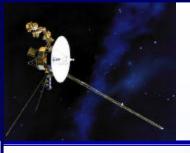
JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE





http://vraptor.jpl.nasa.gov





VOYAGER

FLIGHT OPERATIONS



FLIGHT SYSTEM STATUS

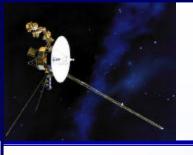
MISSION STATUS

VOYAGER 1

- * HELIOCENTRIC DISTANCE 84.1 AU, RTLT 23h15m54s
- SPACECRAFT REMAINS HEALTHY
- MAJOR ACTIVITY: PLAYBACK AND MAGROL

VOYAGER 2

- * HELIOCENTRIC DISTANCE 66.6 AU, RTLT 18h33m14s
- SPACECRAFT REMAINS HEALTHY
- MAJOR ACTIVITY: PLAYBACK AND MAGROL



VOYAGER

FLIGHT OPERATIONS



GROUND SYSTEM STATUS

(January 12, 2002 – March 15, 2002)

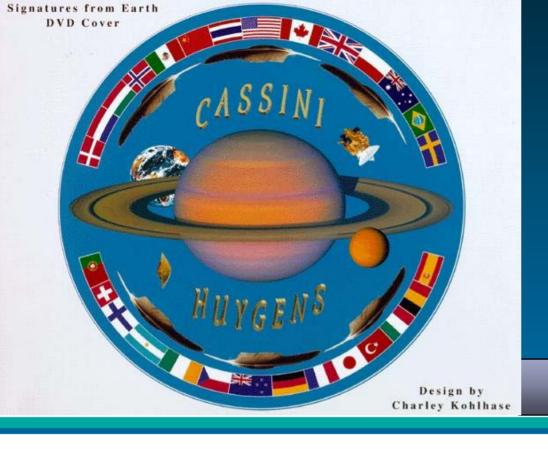
DSN - OVERALL SUPPORT – GOOD

TOTAL SUPPORT TIME, OUTAGE TIME, % of OUTAGE TIME

S/C	SCHED SUPPORT	ACTUAL SUPPORT	70M TIME	SIGNIFICANT OUTAGE TIME	% of OUTAGE TIME
31	836.1	836.1*	160.2	11.6 (2.4)	1.7
32	549.7	549.7*	181.6	8.7 (1.5)	1.9

*No schedule changes during the period

VOYAGER HOMEPAGE - http://vraptor.jpl.nasa.gov





http://saturn.jpl.nasa.gov/cassini/index.shtml

Joint Users Resource Allocation Planning (JURAP) Committee Meeting

Dave Doody March 21, 2002

NASA / Jet Propulsion Laboratory



- Jupiter Encounter featured in <u>Nature</u> vol 415, 28 February 2002
- In Quiet Cruise Subphase through 8 July 2002
 - S/C remains HGA-to-Earth except for specific short activities
 - Next subphases are Space Science, Approach Science...
- Operations are Basically Nominal
 - SOI Design/Risk Review completed
 - Tour Uplink Mission Operations System Critical Design Review completed
 - Tour Science Planning continues
 - Main Engine TCM-18 DOY 093 (required mainly to clear propellant lines)
 - Minor S/C instrument anomalies being worked and recovered near real time
 - ISS Initial decontamination results good, 62 days further decon begin next month.
 - Good DSN support
 - NOP still being revised!
 - RNG problem continues under investigation
 - Minor anomalies being worked in real time, minimal data loss
 - Conducted DTF-21 tests of NSP CMD (AMMOS v26.3.1, UPL D2)
 - Demonstrated NSP CMD end-to-end uplinks to S/C with all three DSCCs
 - Supported BVR F/W v5.1.4 retest; commanded S/C to Bi-φ D/L with 35kbps TLM.
 - GDSCC Array capability demo to be scheduled
- Next Prime Mission Science
 - Superior Conjunction RS experiment 2002 DOY 157 through 187
 - GWE#2 2002 DOY 341 through 2003 DOY 016

INTERPLANETARY NETWORK AND INFORMATION SYSTEMS DIRECTORATE



http://map.gsfc.nasa.gov/

Flight Project Reports:

MAP/ACE/IMAGE



http://www.srl.caltech.edu/ACE/



Steve Waldherr TMS Manager MARCH 21, 2002



http://pluto.space.swri.edu/IMAGE

InterPlanetary Network and Information Systems Directorate Deep Space Mission System Program

MAP



- MAP is currently planning the following L-2 station keeping maneuver:
 - 8 May, 2002
 - 28 August, 2002
 - 18 December, 2002
- Spacecraft operations continue nominally
- No resource issues/concerns

NASA

InterPlanetary Network and Information Systems Directorate Deep Space Mission System Program





- ACE routine maneuver schedule for January 2002
 - !9 March, 2002 16:08:56 GMT
 - 22 March, 2002 15:15:00 GMT
 - 28 March, 2002 16:15:00 GMT
 - 5 April, 2002 16:15:00
- ACE operations continue nominally
- No resource issues/concerns



InterPlanetary Network and Information Systems Directorate Deep Space Mission System Program

IMAGE



SW-3

- Spacecraft operations continue nominally
- No resource issues/concerns



Mars Global Surveyor Flight Operations Status

E.E. Brower

March 21, 2002 Jurap

Mars Global Surveyor AGENDA

- Program / Project Status
- Recent Events/Accomplishments
- Mission Assessment
- Issues

MGS

Mars Global Surveyor Program / Project Status



Detailed Description: (for items identified as yellow or red)

Technical:

Schedule:

Resources:

Programmatic:

NOTE: This is a rolling 4-month picture

March 2002 JURAP



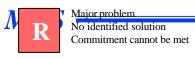
No current problem

All commitments can be met



Major problem Identified solution

Commitment is in jeopardy



Mars Global Surveyor Events

Last 3 Months:

_	High Rate bias test	DEC 10
_	Odyssey A/B support end	JAN 10
_	MPL imaging	JAN 11-12
_	Resumed ROTOs	JAN 21
_	Completed 1 year of Extended Mission	JAN 31
_	Resumed 10h/d DSN tracking	FEB 1
_	Provided 3 gyro scale factor updates	FEB 20-27
_	Entered Contingency Mode	FEB 27
_	Resumed full instrument operation	MAR 11
_	Transitioned to Beta Supplement	MAR 13
_	Changed to lowest data rate	MAR 20

Mars Global Surveyor Recent Accomplishments

- P 20 Roll Only Targeted Observations (ROTO) were performed successfully bringing the total to 233 since the onset of the extended mission.
- P Preparations for the Beta Supplement transition were completed (table top Feb. 20) with March 13 commencement in the new spacecraft Relay-16 attitude. One week of medium telemetry rate occurred in the Beta mode and ROTOs were suspended in the first week.
- P A special non-comm. ROTO was performed on March 10 to demonstrate this capability for Beta Supplement operation.
- N The Thermal Emission Spectrometer (TES) performed two power restarts to clear sequencing problems introduced by activation of the image motion compensation software intended to provide the highest resolution thermal inertia measurements of MER landing sites.
- P Two prior gyro scale factor updates were uplinked with substantial improvement in STAREX convergence following ROTOs (<30 minutes).
- P Power management required adjustment of the Solar Array offset pointing from 25 to 0 deg.

Codes: P Per Plan

F Per Plan, but not previously forecasted in this report

N Not previously planned

L1,2,3 Late -- 1st, 2nd, 3rd time slipped

C Canceled -- not needed

MGS

Mars Global Surveyor Upcoming Events

- N Flight Rule: Stars near uncataloged objects will be removed from weekly swath catalog (not to be used for STAREX convergence).
- P Complete Mars Beta Supplement transition with non-comm. ROTOs
- P Prepare risk assessment update for E2 mission
- P Release Mission and Task Plan updates for E2 mission

Codes:	P	Per Plan
	F	Per Plan, but not previously forecasted in this report
	N	Not previously planned
	L1,2,3	Late 1st, 2nd, 3rd time slipped
	C	Canceled not needed

MGS

Mars Global Surveyor Mission Assessment

- Spacecraft is in good health.
- UHF tests on June25-28 to confirmed relay health.
- Expect to fulfill most extended mission objectives (complete MER site coverage may become E2 mission objective).
- Expect to satisfy MER EDL Requirements.
- Chances of operation through 2004 are good.

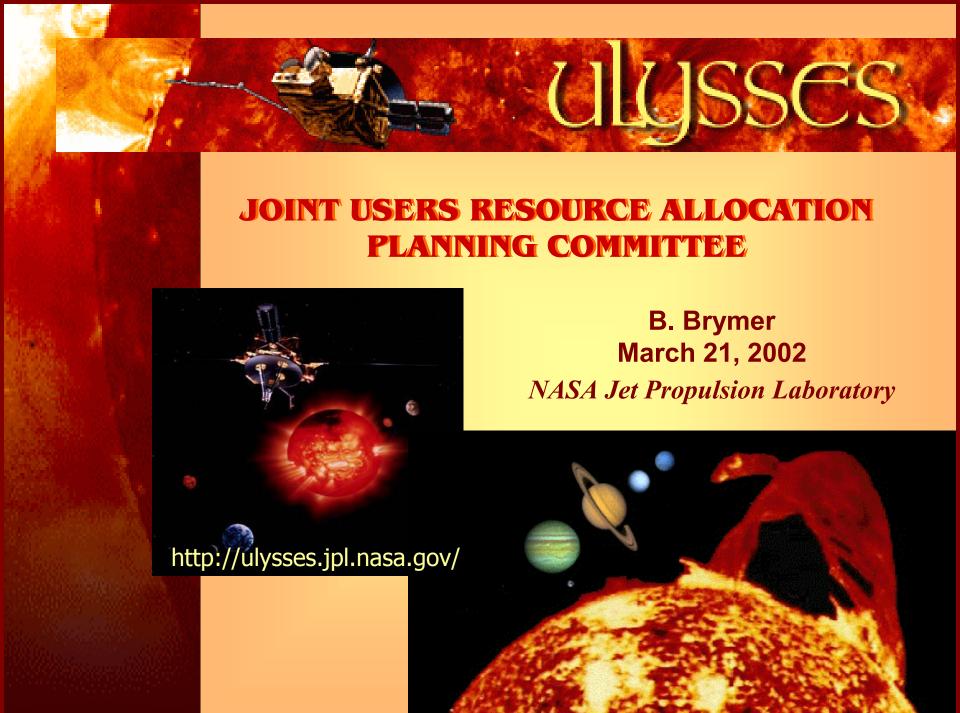


Mars Global Surveyor

Issues

None







ULYSSES

JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE

- SPACECRAFT OPERATIONS ARE NOMINAL. THE SPACECRAFT IS IN CONTINUOUS VIEW FROM THE NORTHERN HEMISPHERE AND OUT OF VIEW FROM THE SOUTHERN HEMISHERE.
- SPACECRAFT RECONFIGURATIONS AND INSTRUMENT CALIBRATIONS ARE PERFORMED AS REQUIRED.
- SPACECRAFT EARTH POINTING MANEUVERS ARE BEING PERFORMED EVERY 4 DAYS.



ULYSSES

JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE

- SIGNIFICANT DISCREPANCY REPORTS FOR THIS JURAP PERIOD ARE LISTED BELOW:
 - 055/13:00 -> 13:20, DSS-54, DR:M100577; CPA4 failed during command transmission with 'COMMAND REGISTER SHIFT ERROR.' CPA4 was rebooted and re-validated, and the CMA was reset to make good. Command activity was nominal following recovery.
 - 057/11:45 -> 13:12, DSS-24, DR:G100855; With antenna on point and following spacecraft track the station was unable to configure the Block V Receiver. This was due to previous failure and troubleshooting was in progress. Several reboots of the complete BVR system were performed to no avail. Problem was eventually isolated to RMT1. Reconfiguration of the RTM systems were done so as to temporarily correct the problem and allow BVR configuration to proceed. While the BVR was inoperable commanding to the spacecraft was successfully performed in the 'blind pointing' mode of block command loads. It was decided not to send the daily, immediately executable, Stone command.
 - 057/15:00 -> 15:17, DSS-54, DR:M100581; Late AOS due to Antenna Elevation Angle Motor #1 controller failure. Defective controller was replaced to make good. 17 minutes of realtime and 34 minutes of playback telemetry were lost. (51 minute total loss).



JOINT USERS RESOURCE ALLOCATION PLANNING COMMITTEE



Brad Compton March 21, 2001



Ilysty Jas Propulaton Laboratory

http://galileo.jpl.nasa.gov/



GALILEO EUROPA MISSION

ROUTINE ACTIVITIES

- Propulsion maintenance activities
- DMS conditionings
- Gyro performance test
- Science instrument MROs
- Attitude maintenance turns



GALILEO EUROPA MISSION

SIGNIFICANT EVENTS

- * Io 33 encounter closest approach occurred Jan 17 at 6:44 am at an altitude of 100 km (closest of any encounter to date)
 - Spacecraft entered safing at approximately 6:16 am due to a despun bus reset.
- * Acquired continuous fields & particles data outbound from Jupiter to the bow shock region.
- * Spacecraft is now on a ballistic trajectory to impact Jupiter (J-35)
- * Initiated playback of I-32 and I-33 encounter data.
- * Spacecraft entered safing on Feb 16 due to a despun bus reset. This was the first such occurrence outside 30 Rj since Galileo arrived at Jupiter.
- * Special thanks to the DSN OPS Chief, GBRA and the DSN EAC test group for their assistance in our obtaining tracking time.



GALILEO EUROPA MISSION

PROJECT PLANS

- * Complete I-33 playback
- * Continue routine activities
- * Next encounter, Amalthea 34 on 5 November





JOINT USERS
RESOURCE ALLOCATION
PLANNING COMMITTEE

R. E. Ryan March 21, 2002

NASA Jet Propulsion Laboratory

http://stardust.jpl.nasa.gov



Report to JURAP

STATUS

SPACECRAFT IS HEALTHY (3/21/02)

PRESENTLY 3.15 AU from EARTH

00:52:15 RTLT

2.71 AU from SUN

SPACECRAFT IS IN NOMINAL CRUISE

- BIT RATE IS AT 252 bps (on HGA/34 HEF)
- MAX EARTH RANGE WAS 3.59 AU ON JANUARY 06
- DSM 2 (TCM-7) SUCCESSFULLY PERFORMED ON JANUARY 18
 - 112 SECOND BURN FOR 2.65 METER DELTA V
- WE ARE FARTHER FROM THE SUN THAN ANY U.S. SOLAR POWERED SPACECRAFT, CLOSE TO APHELION OF 2.72 AU (Apr 17-18).
 - THE SOLAR PANELS AND POWER SYSTEM ARE PERFORMING VERY WELL









Report to JURAP

- CURRENT ACTIVITIES
 - CLOSE MONITORING OF THE SPACECRAFT POWER SYSTEM TO PROTECT THE BATTERY
 - COMM PERIODS ARE TWO HOURS
 - NOT INCLUDING UPLINK TIME
 - PLANNING AND TESTING FOR ENCOUNTER
 - UPGRADE OF SPACECRAFT TEST LAB IS PROCEEDING
 - ANNEFRANK FLYBY, IN NOVEMBER, WILL BE AN ENCOUNTER TEST FOR WILD-2
- IPN SUPPORT HAS BEEN GOOD THIS PAST PERIOD











Report to JURAP

http://stardust.jpl.nasa.gov

UPCOMING EVENTS

MAXIMUM SOLAR RANGE, 2.72 AU APRIL 18, 2002

INTERSTELLAR DUST COLLECTION 2
SECOND AEROGEL DEPLOY
JULY 27 TO DECEMBER 9, 2002

ASTERIOD ANNEFRANK FLYBY NOVEMBER 2, 2002







